



REGIONAL CARBON CAPTURE DEPLOYMENT INITIATIVE

UPDATE

July 1, 2022

DOE Issues RFI for Clean Energy Demonstration Projects on Mine Land

The U.S. Department of Energy (DOE) [issued](#) an [Request For Information \(RFI\)](#) on Wednesday to guide their Clean Energy Demonstration Program on Current and Former Mine Land program.

The \$500 million program will place clean energy demonstration projects on current or former mine land in America and will support projects using clean energy technologies, including direct air capture and fossil-fueled generation with carbon capture, utilization, and sequestration.

Funded by the Bipartisan Infrastructure Law, the program will be operated through DOE's Office of Clean Energy Demonstrations. DOE is seeking feedback from a wide range of stakeholders on how to design the program to encourage private-sector investment in similar projects leading to economic development for underserved communities located near current and former mine land while advancing environmental justice

Submit feedback on the RFI here: [OCED Exchange](#)

Climeworks Begins Work on Second DAC Facility

Carbon dioxide removal company Climeworks announced on Tuesday it has begun work on a second commercial direct air capture plant in Iceland that will capture and store 36,000 metric tons per year of carbon dioxide.

Construction is expected to take 18 to 24 months and [CarbFix](#) will store the captured carbon once operations begin. As with Climeworks first DAC plant, Orca, renewable energy will be used to run the direct air capture and storage systems.

Associated News Coverage:

- [Work begins on Mammoth, the world's largest CO2 direct air capture plant \(newatlas.com\)](#)
- [Climeworks is a carbon dioxide removal company building in Iceland \(cnbc.com\)](#)
- [Climeworks is building a bigger carbon removal plant — and getting some new competition | Grist](#)

- [A New Carbon Capture Plant Will Pull 36,000 Tons of CO2 From the Air Each Year \(singularityhub.com\)](#)

Keystate Carbon Management Project in PA Receives Investment

Pennsylvania's only carbon capture and storage project, KeyState Natural Gas Synthesis received funding from an outside investor, OGCI Climate Investments to support the \$900 million project.

The project is located in Clinton County, PA and will produce natural gas on site to make ammonia, urea and potentially hydrogen. The facility will capture and permanently store the carbon from the natural gas. The operation is likely to begin at the end of 2025 or early 2026 and has the potential to store 300,000 tons per year of carbon dioxide.

OGCI CI's investment in the project will help deliver pre-front end engineering and design (pre-FEED) activities for the facility and characterization of storage resources ahead of further investment.

Associated News Coverage:

- [KeyState Natural Gas Synthesis gets investment from OGCI Climate Investments - Pittsburgh Business Times \(bizjournals.com\)](#)
- [OGCI Climate Investments invests in KeyState Natural Gas Synthesis, first carbon capture and storage project in Pennsylvania, U.S.](#)

1PointFive to Develop Carbon Storage Hub in Louisiana

1PointFive, a subsidiary of Occidental Low Carbon Ventures business, and Manulife Investment Management today [announced](#) that they have entered into a lease agreement for approximately 27,000 acres of timberland in Western Louisiana.

The agreement provides 1PointFive with access to subsurface pore space and surface rights to develop and operate a carbon storage hub, with access to permanently store industrial carbon emissions. Two Class VI injection permits, required by the EPA for geologic sequestration, have already been filed for the site

Upcoming Events Following West Virginia v. EPA Decision

In light of the Supreme Court's decision yesterday on [West Virginia v. EPA](#), the Great Plains Institute (GPI) Carbon Management Team wants to alert you to two upcoming events you may find helpful to better understand its meaning and effect.

First, the Conveners' Network will host a webinar next Wednesday, July 6th at 12 pm Eastern to explore the implications of the decision. The webinar will feature Clean Air Act legal experts that have argued various legal interpretations of the relevant provisions, including Jeffrey Holmstead, a partner at Bracewell LLP and a former assistant administrator of the EPA's office of Air and Radiation, and Lisa Heinzerling, a Professor of Law at the Georgetown University

Law Center, and former Senior Climate Policy Counsel to the EPA Administrator. You're invited to join by registering [here](#).

Subsequently, we would also like to invite you to a more focused Great Plains Institute-led discussion about the potential effect of the decision on matters important to our carbon management efforts. The webinar will take place on Wednesday, July 13th at 10:30 Eastern. Doug Scott, GPI Vice President of Energy Systems, and Franz Litz, GPI Consultant, will provide a brief presentation on the decision, followed by a moderated discussion. You're invited to join by registering [here](#).

State Carbon Management Legislative Highlights

Read RDI's [weekly legislative update](#) to see all tracked bills related to carbon management.

News Roundup

- [On coasts, carbon capture could join offshore wind | Energy News Network](#)[US green hydrogen hub will put long-haul energy... | Canary Media](#)
 - [E&E News | Article | IEA: Energy transition picks up speed, but trouble looms \(politicopro.com\)](#)
 - [Exxon CEO says carbon removal is climate cure with oil perks - E&E News \(eenews.net\)](#)
 - ['We're fully in.' Utilities eye electric transition - E&E News \(eenews.net\)](#)
 - [Chart: China dominates production of minerals needed... | Canary Media](#)
 - [The race to make green hydrogen competitive is on \(cnbc.com\)](#)
 - [BP Ramps Up Hydrogen Investments and Boosts Team | Oil & Gas IQ \(oilandgasiq.com\)](#)
 - [COLUMN-Green hydrogen may be energy's future, but it's complicated: Russell | Nasdaq](#)
 - [Congress Quietly Backed An Ambitious Climate Project: Sending CO2 To The Ocean Floor | HuffPost Impact](#)
 - [Carbon Removal And Usage Gains Traction As Energy Transition Lags \(forbes.com\)](#)
 - [Shell qualifies BASF tech for green hydrogen purification : Biofuels Digest](#)
 - [Why companies like Stripe, Meta and Alphabet are behind carbon removal \(cnbc.com\)](#)
 - [Frontier commits \\$2.4M to carbon capture startups \(axios.com\)](#)
 - [Supreme Court Sharply Limits Regulation Of Carbon Emissions | HuffPost Latest News](#)
 - [The Supreme Court's EPA Ruling Is Going to Be Very, Very Expensive - The Atlantic](#)
-

Global News

- [Hydrogen - Finland to Build a National Hydrogen Infrastructure - Renewable Energy Magazine, at the heart of clean energy journalism](#)

- EU's war response can 'supercharge' hydrogen investment – IEA (pemedianetwork.com)
 - UK chemicals plant ready to start carbon capture rollout | Tata | [The Guardian](https://www.theguardian.com)
 - Riviera - News Content Hub - Ecospray progresses carbon capture, biomethane and CO2 liquefaction projects (rivieramm.com)
 - ExxonMobil, Grieg Edge, North Ammonia, GreenH to Assess Low-Emission Hub at Slagen Terminal in Norway | [ExxonMobil](https://www.exxonmobil.com)
 - UK's largest carbon capture project will turn 40,000 tonnes of CO2 into sodium bicarbonate each year | [Daily Mail Online](https://www.dailymail.com)
 - Capital Power advances carbon capture project at Genesee ([streetinsider.com](https://www.streetinsider.com))
 - Tests Demonstrate Carbon Capture Potential of Inomin's Beaver Critical Minerals Project - Junior Mining Network
 - CNOOC Ltd set to commission offshore CCS project | [Upstream Online](https://www.upstreamonline.com)
 - SSE, Equinor Buy Three UK Power Plants to Pursue Low-Carbon Plan - [Bloomberg](https://www.bloomberg.com)
 - Teck Announces Carbon Capture Utilization and Storage Plant ([globenewswire.com](https://www.globenewswire.com))
 - Rail and Ship Transport of CO2 to Storage: Key to Enable Slovenian Industrial Decarbonisation at Salonit Anhavo Cement Plant - [Bellona.org](https://www.bellona.org)
 - Air Products, Gunvor sign agreement for green hydrogen terminal in Netherlands | [Lehigh Valley Regional News](https://www.lehighvalleyregion.com) | [wfmz.com](https://www.wfmz.com)
 - Green Hydrogen In Play For Airbus Hydrogen Hub Scheme ([cleantechnica.com](https://www.cleantechnica.com))
 - Equinor and Fluxys unveil plans for CO2 pipeline from Belgium to Norwegian offshore CCS | [Upstream Online](https://www.upstreamonline.com)
-

New podcasts, reports, statements & blogs

- The need for robust MMV plans in CCUS operations - [JWN Energy](https://www.jwnenergy.com)
 - 10 Carbon Capture Technology Ventures Working to Combat Climate Change - [Causeartist](https://www.causeartist.com)
 - Carbon Capture, Utilization, And Storage Global Market ([globenewswire.com](https://www.globenewswire.com))
 - What Happens to Carbon Stored Underground? ([azocleantech.com](https://www.azocleantech.com))
 - Assuring the integrity of offshore carbon dioxide storage - [ScienceDirect](https://www.sciencedirect.com)
 - Making hydrogen power a reality | [MIT News](https://www.mit.edu) | [Massachusetts Institute of Technology](https://www.mit.edu)
 - Why are so many hydrogen deals being announced around the world - an explainer ([proactiveinvestors.com](https://www.proactiveinvestors.com))
 - Twelve to Deploy World's First Industrial-Scale Carbon Transformation Platform | [West Virginia Business News](https://www.wvnews.com) | [wvnews.com](https://www.wvnews.com)
-

News in the States

California

- Calif. may rely on carbon capture to meet 2045 net-zero goal - [E&E News](https://www.eenews.net) ([eenews.net](https://www.eenews.net))
- California regulators contemplate standardized rules for gas projects exceeding \$100M | [Utility Dive](https://www.utilitydive.com)

- [Cement carbon dioxide emissions quietly double in 20 years | AP News](#)
- [Not enough or too far? California climate plan pleases few | AP News](#)
- [California's net-zero plan attacked from all sides | Energy News Network](#)
- [The scoop on the Scoping Plan: California's plan relies too heavily on emerging technologies \(Part 3\) \(edf.org\)](#)
- [Climate-friendly cement? California tackles high-carbon industry - CalMatters](#)
- [Watch: Carbon Capture Tech Helps Fight Climate Change – NBC Bay Area](#)

Iowa

- [IUB Approves 13 Additional Public Informational Meetings for Proposed Navigator CO2 Pipeline | Iowa Utilities Board](#)
- [Iowa Utilities Board to conduct more public meetings before approving Navigator Pipeline | KGAN \(cbs2iowa.com\)](#)
- [CO2 pipeline route change in Lee County prompts additional meetings > PenCityCurrent.com](#)
- [Floyd County Supervisors Get Update on Heartland Greenway Carbon Pipeline Project – KCHA News](#)
- [Navigator CO2 pipeline announces public meetings for new route | The Gazette](#)

Kentucky

- [LG&E and KU partner with University of Kentucky on new carbon capture research - Daily Energy Insider](#)

Louisiana

- [Shell Invests \\$27.5 Million in LSU to Establish Institute for Energy Innovation and Catalyze New Campus District Focused on Scientific Discovery](#)
- [Oxy Partners With Landowner for Direct Air Capture Hub Location in Louisiana \(spe.org\)](#)
- [Arbor Renewables plans \\$800 million renewable fuels facility in Port Allen, Louisiana \(lesprom.com\)](#)
- [Occidental subsidiary, Manulife enter lease deal for carbon capture project in Louisiana | Seeking Alpha](#)
- [Williams Reaches Final Investment Decision on Louisiana Energy Gateway Project \(yahoo.com\)](#)

Mississippi

- [Hy Stor Energy Strategic Partnership with Key Gulf Coast Port Becomes First to Deliver Renewable Hydrogen Access for Manufacturing, Industrial Applications, Port Operations and Long Duration Energy Storage | Business Wire](#)

Missouri

- [Ameren Missouri updates 20-year energy plan with advanced net zero emissions timeframe - Daily Energy Insider](#)
- [Ameren Missouri to add more renewable energy — and fracked gas — in updated plan • Missouri Independent](#)

New Mexico

- [NM CO2 Limit Rule Would Target San Juan Coal Plant | RTO Insider](#)
- [Will carbon capture help clean N.M. power? | Energy News Network](#)
- [New Mexico utility ordered to refund ratepayers after coal plant closure | Energy News Network](#)
- [N.M. coal transition law faces uncertain timeline | Energy News Network](#)

North Dakota

- [Sen. Cramer Highlights North Dakota's Energy Leadership at the Energy & Environmental Research Center's Energizing North Dakota Event \(senate.gov\)](#)
- [ND a leader in cracking CCUS code | KNOX News Radio, Local News, Weather and Sports \(knoxradio.com\)](#)
- [NDPC, API invite Biden to visit Bakken ahead of Saudi Arabia trip and more things to know this week in energy | Oil And Energy | willistonherald.com](#)

Pennsylvania

- [Insider Take on Hydrogen and Carbon Capture Conference - FracTracker Alliance](#)

Texas

- [What you need to know about carbon capture \(houstonchronicle.com\)](#)
- [ABS and Texas A&M Qatar Agree on Landmark Carbon Capture Joint Study | Hellenic Shipping News Worldwide](#)
- [HIF Global wants to build an e-fuels plant near Dallas \(houstonchronicle.com\)](#)
- [Houston Inno - BCarbon gets \\$280K grant from Valero Energy Corp. to develop Texas coastline carbon credits model \(bizjournals.com\)](#)

Utah

- [US green hydrogen hub will put long-haul energy... | Canary Media](#)

West Virginia

- [Manchin opposing direct payments for clean-energy developers - Detroit News](#)
- [Appalachian Power president tells Public Energy Authority that carbon capture has a financial viability problem | Energy and Environment | wvgazette.com](#)

Wyoming

- [New 416-mile transmission project could support Wyoming nuclear, carbon capture - Casper, WY Oil City News](#)
- [Lawmakers seek deal for coal carbon capture - WyoFile](#)
- [\\$2.5B, 416-mile transmission project powers up | News | wyomingnews.com](#)

Upcoming events

June 30

- [Direct Air Capture Summit, hosted by Climeworks](#)
Climeworks' Direct Air Capture Summit is a one-of-a-kind platform featuring business, technology, and policy experts. Key players collaborating and discussing high-quality carbon removal solutions help drive the scale-up the industry needs. The third edition of the summit will highlight the roles that the public and private sectors play in driving climate solutions and meeting global net-zero goals

July 20 - 21

- [Carbon Negative Shot Summit | U.S. Department of Energy \(DOE\)](#)
The Carbon Negative Shot Summit will convene a diverse set of perspectives to discuss the development and deployment of CDR in the United States, as well as explore justice and equity principles and workforce development opportunities. The nascent nature of CDR provides an imperative to integrate equity and justice from the start

July 25-27

- [CCS / Decarbonization Project Development, Finance & Investment - Presented by Infocast \(infocastinc.com\)](#)
Infocast's CCS/Decarbonization Project Development, Finance & Investment Summit will bring together project developers, emitters, providers of tax equity, development capital and cash equity to explain the latest developments, showcase critical market information, provide an "inside view" from the perspectives of all the players in these deals, to let you know how to take maximum advantage of available federal and state programs and incentives and other potential revenue streams and to get what you need to make actual projects in the exciting new CCS/CCUS space actually happen.

July 26

- [Carbon Business Council, What's Ahead for Carbon Management](#)
Hear from leading carbon management startups about what is ahead for the industry and upcoming initiatives of the Carbon Business Council. Speakers will be announced prior to the webinar.

To subscribe or request to add an event, news story, report, blog, or job posting to the update please reach out to Emma Thomley at ETHomley@gpisd.net Want to read more carbon management updates, studies, and fact sheets? Visit us at [Carbon Capture Ready](#).

About this email: You are receiving this message as part of a newsletter subscription to the RDI Update. If you no longer wish to receive the weekly newsletter, please email ethomley@gpisd.net to be removed from the list.